1982

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

[redacted] 6/2/82

C-5 Cliffwood Beach

Cliffwood Beach Loc.

Rancocas Flat top.

Magothy

UNCONF at top

Magothy

Fluvial Estuarine

Black Laminated

Thin beds lignitic

sand clay

Some cut + fill

STRATIGRAPHIC Section TAKEN W/
& DICTATED TO S. Upchurch

825

Lignite

Leaf clay

xbedded sand & clay

RICHARD LEV
RUTGERS Geology Dept
WRIGHT LABS
NEW BRUNSWICK, NJ
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SENT PAPER BACK ON 6/9 & 6/10

824

Cliffwood beach

825 Nov 3rd

826 1982

3rd

K/T
Point 180 m NW of MANTUA Quarry - for complete loc data see end of entry 6/2/82

8216 POLECAT Branch W Side
180 m NW of MANTUA
Outcrop at base of
Dens + 1N 2 lignite

Center C line, NW, NE, SW 1/4, Sec 31, T5N, R 98W, Park Co. Colo. Old 7839
PX 3-4 Zithology

5- 2 lignite

6- from 2 lignite to base of MANTUA tuff

Sampling at 2 cm intervals

0 point about 2 m below base of 2 coal
SS & mudstone interval at top of Hell Cr-Lance unit

Sampling ~~site~~ w Steel Tools
Dug 2 trenches abt 1 ft apart through weathered zone
Sampling w Steel Tools
No weathering rinds
Ceramic SPATULA for

0.0-0.1 Represents interval sampled no core in red line incl. contacts

§2.10 (Cont'd)

Final screening of samples

0.0-0.27 - Pollen sample

0.0-0.1 In sample

0. Massive 10YR 6/2 mudst,

0.02 Vfg ss, 5Y 7/2 w limonite mottling & pl frags massive.

0.16 5GY 6/1 friable mudst.

0.1-0.2 0.18 Grading upward to dark green fissile sh

0.22 fissile, chippy 5Y 5/2 mdst w pl frags

0.2-0.3

0.31 Ufg arkosic SA SS, w 1 thick of 1 CALCAREOUS material, irreg basal CONTACT. This is BASE

Color 5S. 10YR 6/4

[redacted] 6210

0.3 0.4 | of ASS. lens tapering upward to above 1m

0.4-0.5 |

0.41-0.49 lense of fissle SLTST w some clay

0.49 SS as at 0.31 some outlining of X beds w carb material

0.5-0.6 |

0.6-0.7 |

above 0.75 SS w/ thin wavy stringers of ~~SLTST~~ fissle, SLTST.

0.7-0.8 | Some stringers of brownish matl ~~of~~ w/ pl. frags.

0.8-0.9 | 0.84-0.86 brownish mudst partng w/ some pl. frags & crinoid stem imps.

0.9-1m | upper 10 cm becomes INC brownish & carbonaceous

1.0-1.1 |

1.1-1.2 | 1.19 Fissle carb SLTST 10YR 6/2 base of fine gr. + lignitic unit

8210

12,
1.2-1.3 at 1.23 ~~Brownish~~ 10YR 7/4
fissle silty sh. w
pl. remains (scrappy)
1.3-1.4 limonite staining
+ ~~Fissle~~
~~1.2-1.3~~
1.33 Fissle mudst w/ pl
remains comminuted
1.37 more massive mudst
stn w pl frags
1.4-1.5 10YR 5/2
1.42 ~~Fissl~~ mudst w/ gypsum
on joints
stringers of coal 1-2mm
1.5-1.6 thick about 1.56
1.6-1.7 1.62 Underclay of 2 roots
comminuted pl. matter
& contort-d layering of
pls. 5Y 6/1
1.7-1.8 Underclay int 1.7-1.79
5Y 6/1 w limonite st.
on joints & roots
1.79 2 Lignite (lowest in Tert. Se
1.8-1.9 1.86 5Y 6/1 Clay interbed.
1.9-2 1.92-2.01 Lignite ~~coal~~

2.0-2.1 | 2.01 - 11 Bedded 5Y 6/1 mudst w/ stringers of lignite

INTERbedded seq of thin wavy lignite stringers 1/2 to 1 1/2 inch beds of mudst.

2.1-2.2

2.5 Thin lignitic shale just below CONTACT

2.2-2.3

2.3-2.4

~~2.5-2.6~~

2.4-2.5

2.5-2.52 | 2.52 Irreg basal CONTACT of MANTUA lentil

Sample 2.6 m in MANTUA lentil

Loc. 8210 = old 7839 July 2, 1982
W Arnold Powell, Geoffrey A. Hickey
ON a point of the cliff 180 m NW of the MANTUA QUARRY on the K/T bdy. Center E line, NW, NE, SW 1/4, Sec 31, T 5 N, R. 98 W. Park Co., Wyo.

7/5/82 8211

Road to Dumbell Hill at top of escarpment just where road comes off Polecat Bench

1130 m E of SW Corner, 340 m N of SE Corner of Sec 31 T 57N, R 98W, Park Co. Wyo
Denver Reservoir Quad. Shale

0 - Fissle, 5Y 6/2, ~~Fossil~~ w/ rare root casts, vertical

0.0-0.1

0.08 Grades upward to 5Y 5/2 SltSt w/ root casts

0.1-0.2 Some limonite stringers

0.12 Fissle Shale 5Y 6/2

0.2-0.3 ~~Sh~~ 0.23 Sh becomes massive

limonitic St. 5Y 6/4 pervasive

0.3-0.4 0.3 Fissle SltSt. bec. more

calcareous, some vf

0.46 SS in small channel

at SS 2' S of 0.4

1' N channel up to 0.52

limonitic St. at base

SS, vfg, Clayey, SS ~~—~~ N.S.C.

with frags, disturbed

0.4-0.5 Ordinary

0.5-0.6 0.69 Fissle Carb Mud St

0.6-0.7 5Y 6/2

0.7-0.8 Fissle SltSt Clayey

0.8-0.9 0.8 Fissle SltSt 5Y 5/6

w/ root casts

0.88 SltSt, lens, w brown

0.9-1.0

8211 (CONT'd.)

1.0-1.1 LAMINAR & VERTICAL
5Y 7/2
becomes a vfg, SL/TX
MLACCEOUS SS 0 above
1.0m W VERTICAL ROOT
CASTS Color 1.1-1.2
5Y 8/4

1.1-1.2

1.2-1.3 — 1.18 SLTST, LAMINITE ST. on
JOINTS, CARB FRAGS & ROOT
CASTS

1.3-1.4 — 1.25 MUDST, [illegible]

1.4-1.5 PLANT FRAGS [illegible]

[illegible]

1.5-1.6 1.5 — SLTST [illegible]

1.6-1.7 STAINED CLAY W ROOT
LIPS, UNLAM CLAY) 5Y 3/2

1.7-1.8 CARBONACEOUS

1.8-1.9 1.85 UNSTUDIED Dusky
[illegible] 5Y 3/2)

1.9-2.0 SLICKED CLAY
1.99 as at 1.8

2.0-2.1 LAMINITE [illegible]
[illegible] 2.11

8211 CONTd.

2.1-2.2 Clay, massive carb 10YR 5/2

2.15 Lignite Blocky ~~Black~~ / ~~[illegible]~~ BLACK. Top 1 cm Brown & Gypsiferous

2.2-2.3 2.23 Massive Clay w vert & hor. roots 10YR 6/2

2.3-2.4

2.4-2.5 2.42 [illegible] [illegible] with [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] plant frags
5YR 4/1 Carbonaceous
w [illegible] [illegible]
[illegible] [illegible] [illegible]
Becomes [illegible] [illegible] 2.6

2.5-2.6

2.6-2.7 2.74 Clumpy silty Shale
w poor [illegible] [illegible] [illegible]
2.73 [illegible] 5GY 6/1

2.7-2.8 [illegible]

2.8-2.9 2.87 Becomes platey w
leaf frags.

2.9-3.0 2.95 [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] roots
[illegible] penetrating vertically

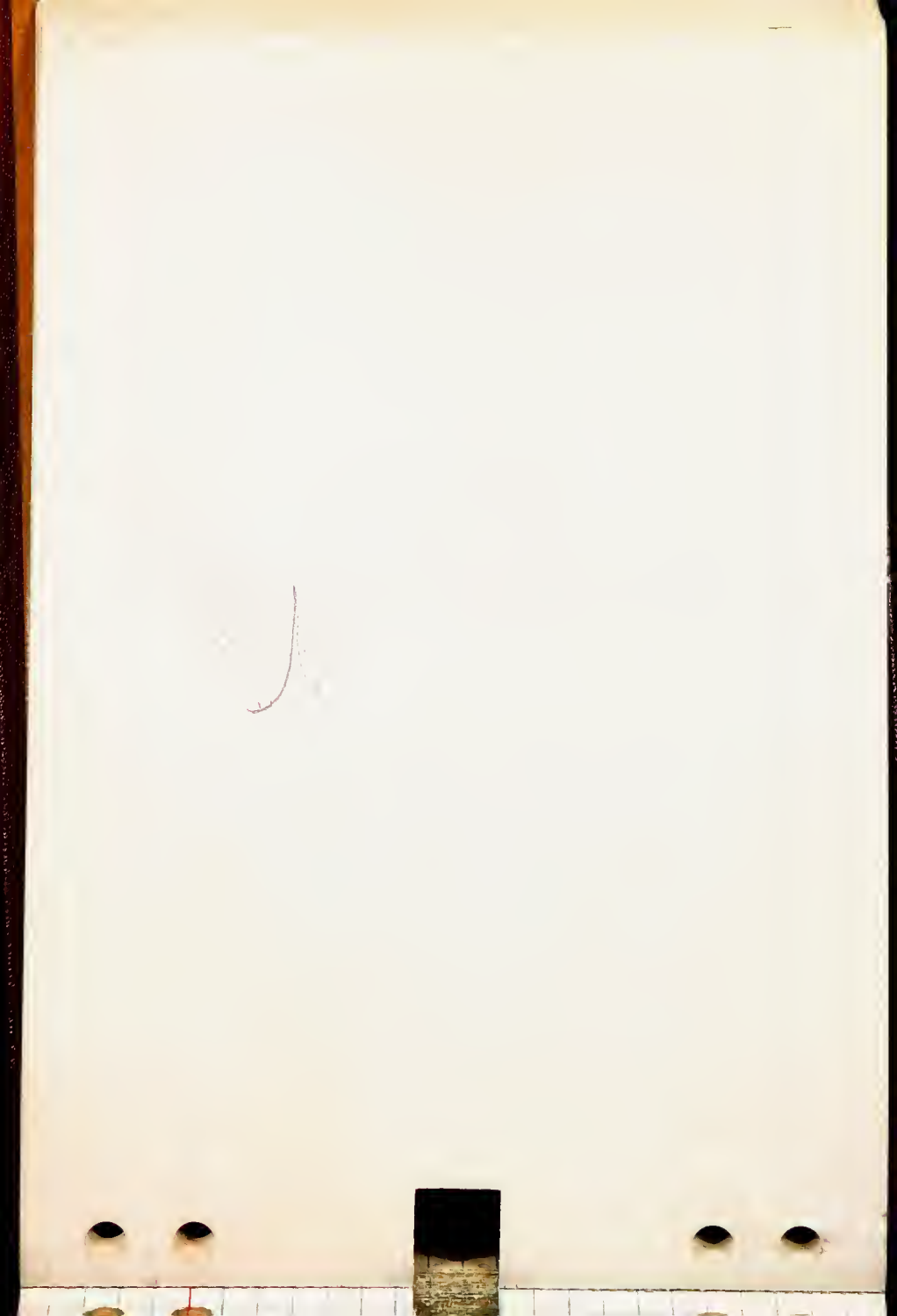
7/5/82 8211

2.0-3.0' Brown loose v. fg. sd, clayey, w/ broken SS fragments, platy, ~ 1% MANGANESE, trace coal, ~ 7/2

Calc.

Ledge appears thick w/ some shale interbeds, lower part of ledge is thinner SS ledge to SE in. Top of slope.

8211 Section across K/T Bdy
Sampled for Ir + Pollen
7/5/82
w/ Arnold Powell



[redacted] 212

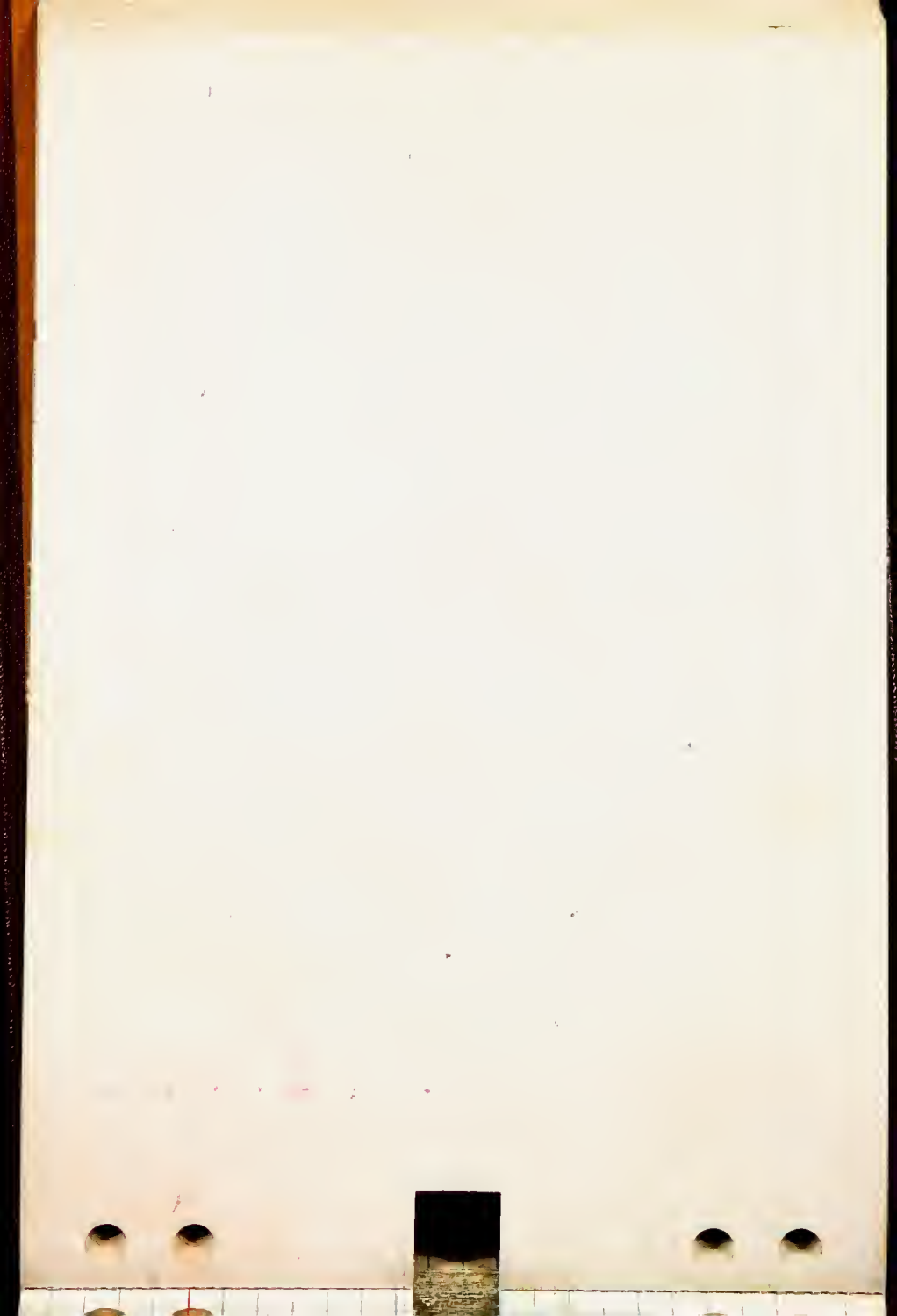
SE 22 T52N, R4W

GOULD BUTTE QUAD

Glyptostroma
Metastegium
Woodwardia very rare
Palmacites sp.
Dicot - pt
Churchillia
Alnus
Terminalmites
Menispermites cf paucinervata
Primys?
Trilobite fragments
Phoebe cf sinuata
Equisetum very rare
"CASSIA" Microphyllum legume
Dicot 2 diff ?

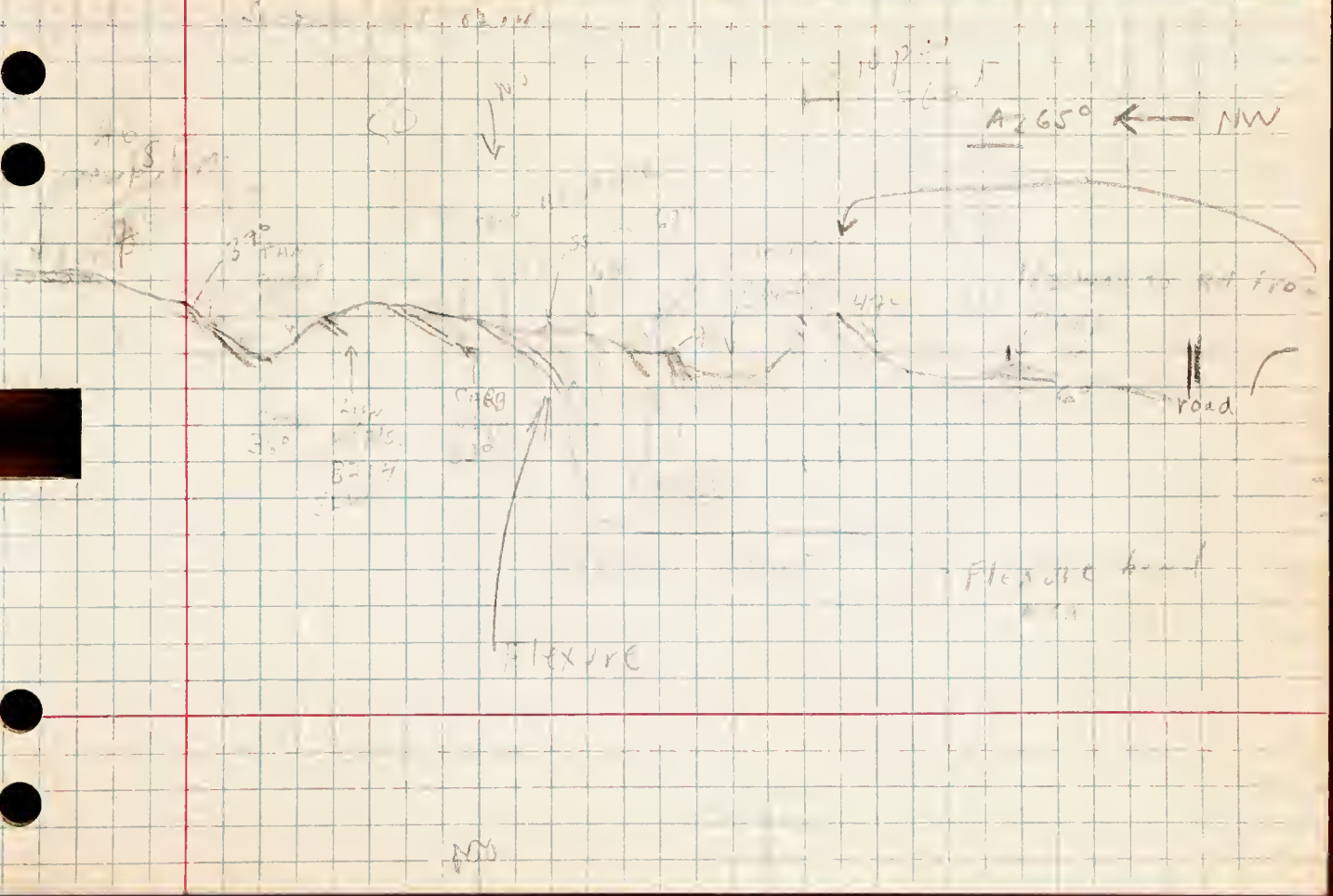
in a thin bed Coal layer
abt 2 1/2 thick
in a light gray sandstone sec
of Upper FT Union Fm
on North side of Uncomp/
Flt Change + contact 20
mi + below coals. Yield ~
West Gould Mammals ?

Weird Fern ?
large leaves
Entire blunt w edge 2"
Formed Stalk Attached
Looks very early Maastrichtian



6212

Churchillia
Alnus
Calyptostrobus


Az 65° ← NW
road
flexure
flexure

7/8/82

8214

Meals permitted [illegible]
Lactulose [illegible]
Diet [illegible]
Glycto crobes
Microsporidia
Chagas [illegible]

1215 ~~— SHUE~~ DX

7/10-15/82
W. Th Bill Clemens & Crew
in Hell Creek Badlands of
E. Montana

8216 = SLW 8211

Ampelopsis
Churchillia ?
Cercis ferwoods.

8217 = SLW. 8212
Ampelopsis
Dalea churchillae
Calyptocarpus
Rhus ? =
Rosa hale Thicket

A. Powell
C. Hotton

[redacted]

On S line of
Sec 31, T 21N, R. 37E, 395M from
SE Corner, Garfield County, Mont.
Trumbo Ranch 7½" Quad

"Upper 2" here turns out NOT to be same the Coal as has Pyroclastic unit at Lerbekmo section but one lignite below it.

A. Powell
C. Hotton

[redacted]

7/11/82

660 m E. ~~of~~ 15 m S, of NW Corner
Sec. 4, T 20 N, R 37 E, 400 m SE of
P219 Brownie Butte, Garfield Co.
Mont. Trumbo Ranch 7½ Q.
Clay [illegible] Lens
18' above top of
Upper 2 Contains
Equisetum
Cheirolepidium Fruits.

A. Powell
C. Hotton

7/11/82

975 m E, 220 m N. SW Sec. 31, T 21 N, R 37 E, Garfield Co. Mont.
Trumbo Ranch 7½ Quad.

Tullock - Hell Creek Bdy.
at base of 2 lignite zone
15- feet below this is
thin lignite called lower
2 that occurs laterally
to base of Hart (Upper log)
Channel.

A. Powell
J. Hotton
G. Hickey

7/11/82

8230

Just N. of Krumm Butte

960 m E, 390 m N, of the SW Corner of Sec. 31, T 21 N, R. 37 E, Garfield Co. Montana

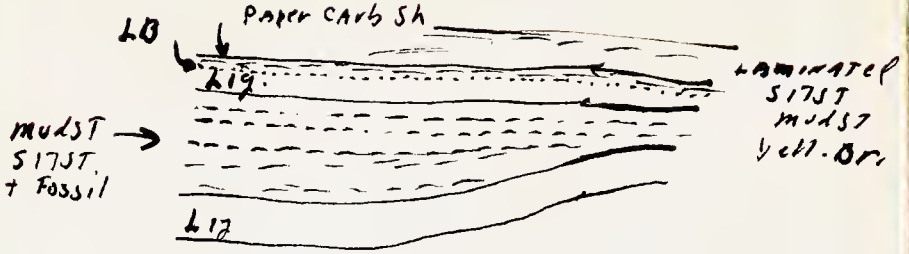
Lower E Coal abt 4'

6 in thick w a 2" clay split abt 2' above base

Abundant Equisetum 25-30' below Lower E

Paraisynphaca dressiflora
Sequoia Magsdorfii
Cladiopsis florissantii
Thuites
Cissus marginata
Vitis olrigii

8218


LB
Paper carb sh
Lig.
LAMINATED
SLTST
MUDST
Y ell. Br.
MUDST
SLTST
+ Fossil
Lig

A. Powell
C. Hotton

7/11/82

8218 [redacted] Brownie Butte

Loc. given before.

Tan mudstone w/ siltstone lm 1-2" interbeds
Above upper Z lignite
incl.
Beds itself is 8' thick
w/ basal 3' filled w/
leaves & [illegible]
Overlain [illegible]

Paraxyphaea crassifolia
[illegible]
Cercidiphyllum [illegible]
Thujites or [illegible]
[illegible]

"Celastrus" laurinensis

The so-called upper Z here is NOT equivalent to all of the upper Z at Lerbekmo site because the "LB" pyroclastic unit occurs in the lignite above - separation is on yell. brown interbedded sltst, mudst w fossil pls. that varies from 10-5' thick.

1

L. Dingus
J. Woodcock
E. Hotton
A. Powell.

7/12/82

260m W, 200m S, NW Cor. Sec. 1, T 20 N, R. 37 E, Garfield Co.

MONTANA. Maloney Hill 15'Q.

Lovell Member Sampling Site
Upper ≈ in Tullock.

No lower ≈
x Tuffaceous to within
30 cm of upper ≈
1/2 m. west of
head

Phenocryst zone 55cm above base

≈ lignite 120 cm

8222 a

layer of Phenocrysts
Sampling ~ 15 cm.
from Sample by Lovell
Sampling Rec. - 1 bag

Unit is Bioturbated

several clastic dikes
in this rep. about
5 episodes in
3 days w/ roots.

Unit capped w/ laminated
clastic zone w/
wavy laminae & plant
fragments

6727

7/12

5 m of X Bedded
Siltst SS w/
orange color. This is
second orange bedded unit
at Brownie Butte.

L. Pingus
J. Woodcock

7/12/82

SE23 Lowbutte Sample [illegible]
W of Locality Road
300 m W, 75 m S, NE Corner,
Sec. 1, T 20 N, R 37 E, Garfield
Co., N.D. Maloney Hill 15' Q.

Lower Z Missing but Lentic.
Camb. Zone at top Zhc
Coarse Sandstone
i.e. just above
Upper Yellow Bay Cone.
SC

Dinosaur Remains
5 m above lower
Carb Shs.
Y 5 m below
Z Coal Interval

Z Coal 82 Cm Thick
Phenocryst Zone
55 Cm above base

Organic Thin
X-bedded Ss. 5 1/2 SS
Interbedded
of East of Road Area
Ufg SS - S 1/2 SS Interbedded
Interval

8232 Cont

Px. Phanerozoic layer

Dinosaurs at this loc
are 15-20' feet of m
below the [illegible] and
[illegible] f. 8. m below above the
lowest Carboniferous
15 m is [illegible]
Dawn between
2 & 3 [illegible]

well almost CONISUTENT
from 13-17 m.

Px. of Triceratops + Tullock - Hell
Creek Mdy.

8218 Returned.
A. Powell

Shale below Socialed
upper 2 Coal
above which
plant fossils were collected
in 1911 & 2

Cercidiphyllum
Paranymphaea

L. Dingus
Jennifer Woodcock

7/12/82

Hell Hollow
615m W, 610m S, NE Cor. Sec 36, T 21N, R 35E, Garfield Co. Montana. Hell Hollow 7½ Q.

Carry Bridger Limestone Upper Unit C

Hells Hollow Channel is Higher at 1 Creek and is lost at Confluence, Goes Underground Here. There Called Hunt Channel

Tributaries at E-4 by Fm. & below both ed Channel

Lower Z does not exist here but is Carb shales at top of Gyp. modstone Hell Hollow (prob. Hunt) Channel.

Z Coal and Ben in Hunt above Carb Shales called Lower Z

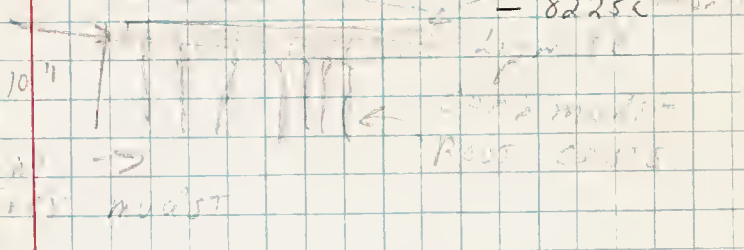
6224

28 Phenocryst zone
90 cm above base
of Layer C
about 25 cm thick
→ Sample 6224
as possible without pumice
and top

Ash forms top of 2
Coal 1 x 1½ m at
base drab grey each
shale layer above

7/12/82
7/14/82

280 M E, 1380 M N, SW Corner Sec. 1
T 20 N, R 35 E, Garfield Co. Mont.



L. Dingus, J. Woodcock, W. Clemens,
D. Clemens, G. Hickey.

8225 c Water Ashy layer above ligs.

0.8 % dip ~~from~~ To SE here

8226 PEARL AREA, SE 1/4, NW 1/4, Sec. 6, T 20N, R. 37E, Garfield Co., MONTANA TRUMBO RANCH 7 1/2' QUAD

Base of Tullock Fm lies 4 m above a ~~carb~~ lignite in H.C. x above a yellow sandy interval

No pyroclastic LAS in what has been called the upper 2. Has this gone in to a clastic sediment

~~Base~~ Base of Tullock defined on TWIN CRITERIA of yellow brown banded mudst, silt + conspicuous lignite beds. (appx 2 dcm thick & laterally continuous on scale of several sections

D. Powell
L. Dingus
C. Hinton

7/13/82

8227

700 m E, 880 m S, NE Cor. Sec 6, T 20N, R 37 E, Garfield Co., Mont.
Trumbo Ranch 7½ Q.

Quercuxia angulata
From bedded silt
20' above base of
Hell Cr Fm

Below in Hell Cr. Fm
~~So Called~~ Unbedded
so called Trumbo are
massive silt, mudst, sh,
silt & mudst w/ root
imps & rarely foss. p/s.
Foss. p/s w. dark gray
halos around them
indicating higher EH & PH
Conditions

Could extinction of Dinos
here be a purely facies
related event w
onset of lignitic Sed
destroying the Dinny Bone...

Suggested Correlation
of persistence of H.C.
could indicate above
base of Earth in a
~~Forth~~ extension of H.C. lithology

8127 Cont'd.

Contra: No kind scrap in - Carey Parcel in Hell Hollow Channels.

But DNO occurred above HART - Hell Hollow Channel at Lenbeck Mo. West.

A Powell 7/13/82

9228 65ME, 7½m W, SW Cor, Sec 36, T 21 N, R 36E, Garfield Co. Mont.
Trumbo Ranch SITE.
480m E of Macdonald Triceratops SITE.
Bone scrap from Hell Creek
10 ft above Top of Unit 1

8229

390 m W, 470 m S, NE Corner, Sec 35, T 21 N, R 36 E, GARfield Co., MONTANA Trumbo Ranch Quad.

Concretion Approx 5 ft below a prominent bed

abt 20 ft above top of yellow log beds

in upper Hell Creek Fm Carbonaceous ptg.

40 ft below Contact of FOLLOCK Fm

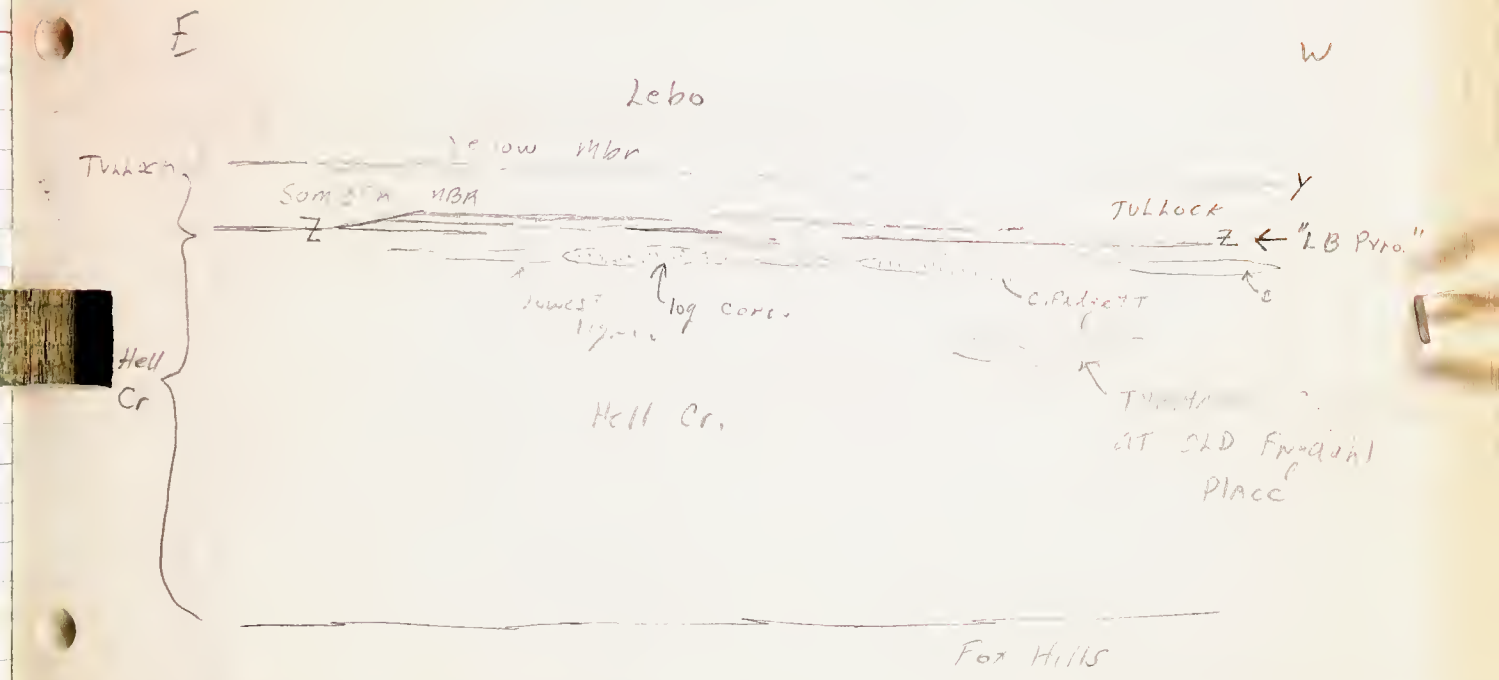
2

T.

910 m E, 520 m S, NW Cor, Sec 26,
T 21 N, R. 36 E, Garfield Co., Mont.
Trumbo Ranch Quad.

Invertebrate remains occur in nodular concs. in a
X bedded channel ss.
Apparently fell into the channel
because they were articulated
& subsequently entombed in
nodular conc.

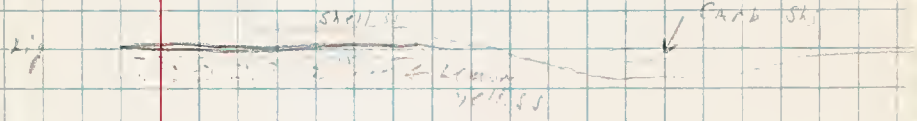
Allison MacDonald.
W. Clemens
J. Powell
S. Hickey
D. Clemens


E
W
Lebo
Tullock
Lower Mbr
Somerville MBR
Z
Y
TULLOCK
Z
"LB Pyro."
lowest lignite
log core
Cinderella
C
Hell Cr
Hell Cr.
Tullock
at old Fairgrounds Place
Fox Hills

7/14/82 [redacted] A. Powell
L Dingus

8225 Iridium Hill Again

Ir lignite is channeled out on ~~Ir Hill~~ Morales I by a channel that descends from the section above it



Profile at Morales I

7/14/82 [redacted] A. Powell L. Dingus

8231 ~~Small hill just to S. of~~ Morales I Hill. 370m E. of & 1260 m N of SW Corner, Sec 1, T 20N, R 35E, Garfield Co., Mont. Hell Hollow 7½'

(3) INTERVAL Sect at Morales I

UNIT

0 STARTS on flat at foot of Hill

(1) Olive drab mudst, massive w/ rare pl frags

(2) 1.38 Vfg, clayey, friable, SA SS brownish grey w carbon stains & plots. Sharp base & from rec rels appears below cut and rel.

Some carbonaceous laminae in Top dcm. Large fossil carbon plots

1.8 Shell beds w carbon mass in lith as below ^ Roots 10's

(3) 2.0 Yell br. carb sh fissile & w poor pl frags

2.65 becomes dark br grey & more fissile above this pt

3.2 Top of Morales I Hill.

8232 370 m E, 1210 m N of SW Cor.
Sec 1, T 20N, R 35E.
Hill South of Morales

(4)

Elev = 8231 ft

236° Az - 0° dip from INITIAL at Morales I Sect.
DIST = 30 pcs To Morales 2

- 0.3 UNIT ① of 8231

- 0.27 Fissile Br. BLACK Carb Sh w/ pl. Fragg, Base 2 cm w/ IGNITE SPLITS - BUT NOT a lignite

- 0.02 F to M gr dirty Br. SS w/ ASSOC SH rusty at Top

+ 0.08 Shell bed in SS

0.25 ICLAY - IRONST. CON layer WEATHERING dap at UNIT Base

0.26 DARK br grey fissle Sh becoming a fissle mudst with rusty Nodules about 2 c

←

1.15 DARK Br. grey fissle SILTST w/ pl frags & becomes Yel. Brown

1.51 DARK Br grey fissle MUDST.

1.7 Fissle dkish grey Sh

2.05 Shell bed in UNIT as below

2.42 DARK br. grey fissle SILTST becoming a Shale upward

8239
1 (OPT)

2.6 ~~Fissile~~ Laminated fg, sa clayey ss w carbon on laminae pa w limonite yellow with patches w poor x-b color 10yr 7/6

— becoming more & more silty above 3.06 m.

3

4.05 Fissile carbonaceous sh,

4.2 Yellow to orange bedded silty ~~ss~~ w ~~dendritic~~ limonite concretions typical of lower part

7/14/82 [redacted] A. Pinch
L. Dingus

0225 Iridium Hill Alamo ①
Trench
Quick & dirty sect.

0 MASSIVE greenish yel
limonite stained mudst
w rare pl. frags &
manganese staining on
joints

2.4 Gradual trans to greenish
yellow massive ~~sh~~ mudst
upper most 1' from w
w/ roots = limonite yell
staining

3.7 ~~Ule~~ Sltfg silty ss
(wh. light greenish yel
to reddy mottled, limonite nodules
scattered on roots)
silty at base becoming
sandy upward - to 3.9 ft
then a mudst w carb
blebs & fillings root
casts.

4.2 An obvious soil (ferruginous)
Highly disrupted clay, subtle
matrix w vert ghosts
roots

4.3 becomes full of ~~ss~~ steel ~~sh~~ gray in
color, roots, clay
blebs NAC.

7/14/82

8225

2.5 Highly carbonaceous
silt
with lignite

4.6 Fissile light yell. gray
sl. silty sh. w roots
(horizontal), rhizomes &
some lgs of
plant debris
4.7 Lignite stringer
4.73 Unit as at 4.6 w
basal 2 cm
but below a fissile
mudstone w fossil
5.35 Medium brown-gray
clayey mudst w
plant debris
Brownish gray w
5.8 [illegible]
silty shale w
mollusk fossils
Fissile dark gray
carbonaceous
(H) Yellow & orange bedded
silt, sandy w
limonite & conc ledges
typical of lower Tongue

6.9 Top of [illegible]

N Morales I - Iridium Hill Area

[illegible]

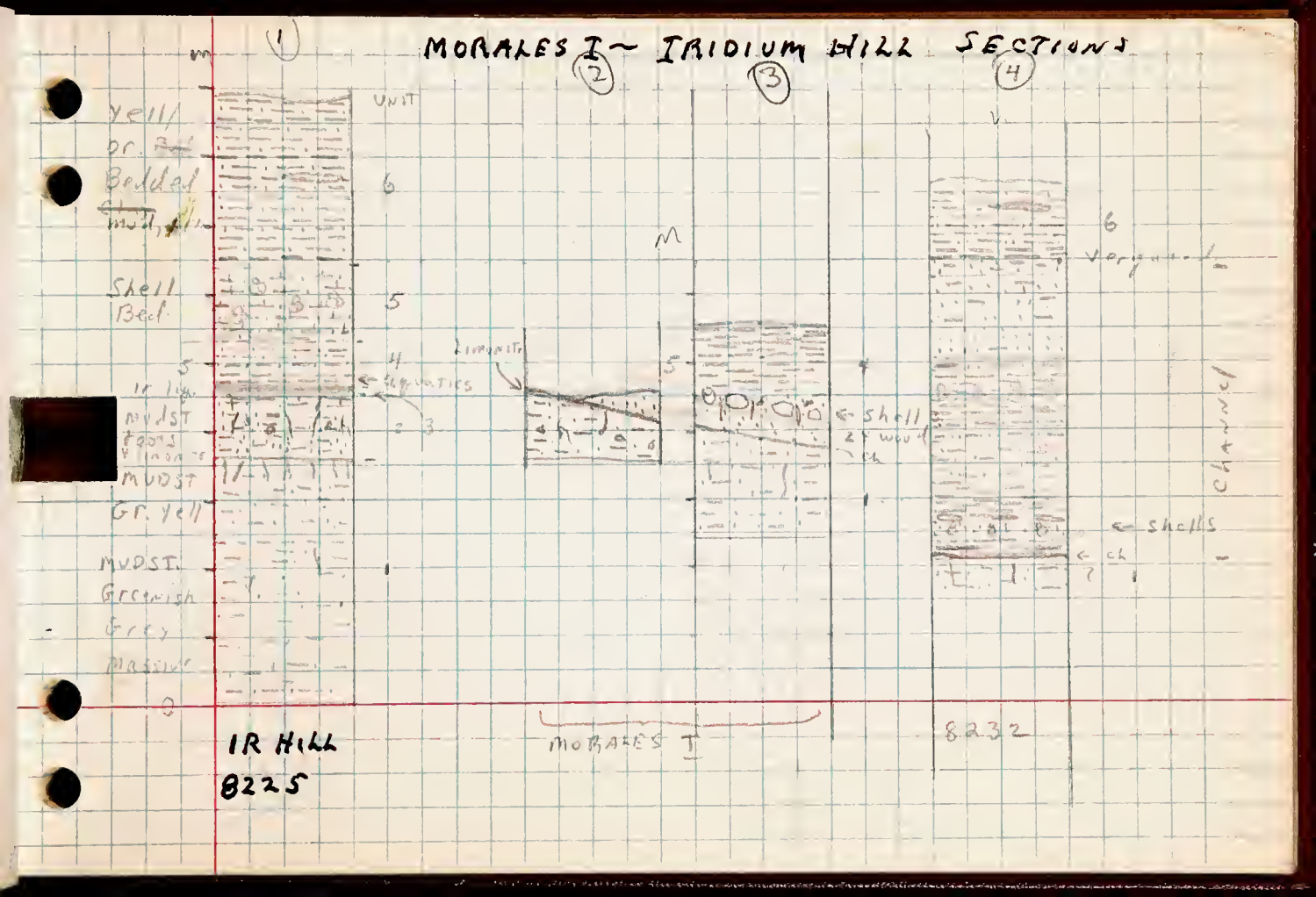
Base Shell Bed Ir. Hill
→ Base Shell Bed 8232
level 0° 7117.

Base Shell Bed Ir. Hill
→ base sh bed 8232
- 0.5% grade

Top Shell Bed Ir. Hill
To Mor I 0.2%
To 8232 0%

Base Yorkytown Ir. Hill
To [illegible] 8332 0%

MORALES I ~ IRIDIUM HILL SECTIONS



Billy Creek Park Abandoned Section of Lindsay Ranch

Tullock Yellow Sandstone

Lignite and Carbonaceous Shale Thinning Eastward Down To Base of Tullock

Base of Tullock marked by a 3" lignite in the white sandy clay or a very fine (2') at base of Tullock yellow clay backed by 2m highest lignite first lignite

Highest Dinosaur is 4 m + below highest lignite

Carbonaceous shale lignite ledges occur 80-85' below top of M.C. and have a 200-2½' basic set of ledges white channel ss - lignite

Name Fox Hills
date [illegible] Reference
[illegible]
Lowell could not find
[illegible]

10/30/82

TRIASSIC - JURASSIC Lowland Trip

STOP 1 AMITY SH. Center

- ORANGE - Milford ~~Pz~~ Ordovician
  Chlorite - Rhyolite Schist
  Meta Monzonite Basalt
  NEW HAVEN Arkose - Conf.
  Poorly Sorted.

Rocked by basalt blocks to N.

PORTLAND Sed.
Hampden Flow.
East Berlin Sed.
~~Shuttle~~ Holyoke Basalt
Sed Unit - Shuttle Meadow.
JUR TRIAS → TALCOTT LAVA ← 187 MY
NEW HAVEN Arkose
ORDOVICIAN

Dip abt 25° EAST
To GREAT FAULT
Units COARSEN TOWARD FAULT

West Rock Sill related To
Holyoke Flow.

Mt Carmel Connecticut Cut on I-91

Stop 4 New Haven Harbor

I-91

Cyclical SS w channel cuts
mudstone & CAlcke w greenish
CASTL Highly Cyclical
Greenish spotted layer
Roots or burrows
Braided Stream deposits
Some C/Q cycles
in channel scours

Paleocurrents E to W.

To North on Hartford Tpke
To Wallingford

Stop 5 Hartford Tpke Wallingford
at Gaylords on Right

N bedded to Rose SS
4 joint & x bdd's

Pebbles metamorphic
Rock from Green
Belt

Stony Creek Fm age
in Avalon Terrane

Stop 5.

Upper Flow Regime
DISTAL FAN / BRAIDED

~~xxx~~ NO MEANDERING STREAMS

Caliche vs lack of oxidation

Coal / MATS or
ORGANIC MATTER

STOP 5a

River Channel SS +
Mulat

White horizons
hydic thermal horizons
out of [illegible]
[illegible]

[illegible]

[illegible]
[illegible]
[illegible]

Sheetlike ss w.
Shallow [illegible]

Soil profiles not
hydrothermal [illegible]
= [illegible]
They are leaching
profiles not calcific
Meandering streams w
discrete channels in
lower [illegible]
Middle & lower [illegible]
& some large channels
Becoming more humid

Stop 6

Talcott Flow.

Pillow basalt
w amygdules
Some breccia
erupted into lake

Hank Williams
Suspect Terranes of
E. U.S.
Ct. Geol.

Scient Amer re: Terranes

Lower Talcott no pillows
Upper " pillows in
places.
Limestone & Dolomite
Clasts between
Pillows

At E. end of outcrop
basal shuttle [illegible]

Stop #8 Dinosaur Park.

East Berlin Fm.
near top?

Stop #9 East Berlin Fm.
on proposed I-291

mudcracks

Red micaceous Sh. ~~+ SS~~
mudst.

Clasts in mudcracks
rip up clasts.

Arkosic Sstn.

Stop #8 East Berlin Fm.

SS
Thin +SltSt Bed
Dark grey ~~Sh.~~ fissile Sh
cycles.
Some Thin lmx laminae

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STOP 8 cont'd

SS. CLEAN [illegible]

[illegible]

STOP(10) PORTLAND Fm.
Lower FACIES
~ 1/2 Km from
Fault

[illegible]

Poss. by Sorted
Fair [illegible]
[illegible]
Some [illegible]
Sandy [illegible]
[illegible]

STOP 11 W Side Lake
[illegible]

FAST Berlin Fm
[illegible]
[illegible]
on E. Side of Lake
Schists